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FROM

Name: Andrew B. Schwaab Phone No.: 650-849-6643

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Date: August 4, 2004

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Message:

In re Application of:

Karl L. Ginter, et al.

Application No.: 09/764,370

Filed: January 19, 2001

For:

SYSTEMS AND METHODS FOR SECURE

TRANSACTION MANAGEMENT AND ELECTRONIC RIGHTS PROTECTION

Group Art Unit: 2132

Examiner: Justin T. Darrow

PART 3 of 3

Examiner Darrow:

Here is the final summary of the related litigation, regarding which Microsoft has taken a comprehensive license to InterTrust's patent portfolio for a one-time payment of \$440,000,000.00.

Please call if you have any questions or would like any additional information.

Sincerely, Andrew Schwaab direct 650-849-6643

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also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "security," "electronic intermediary," "being associated with . . ."). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 28 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 29: Claim 29 is dependent upon Claim 28 and fails the enablement and written description requirements of 35 U.S.C. § 112 ¶.1 for the reasons stated above. In addition, the limitation of Claim 29 fails because it requires additional undisclosed software. Claim 29 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "operatively connected"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed

Claim 56: Claim 56 of the '683 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software and operation of such software on accompanying hardware. Specifically, several limitations in Claim 56 (77:34-56), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 56. Claim 56 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "security," "secure container," "secure electronic container"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the an would therefore be required to undenake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated

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above with respect to all of the claims, Claim 56 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 126: Claim 126 of the '683 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software and operation of such software on accompanying hardware. Specifically, several limitations in Claim 126 (82:50-83:7), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 126. Claim 126 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "security," "secure digital container," "trusted intermediary services"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 126 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I.

Claim 127: Claim 127 is dependent upon Claim 126 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 127 fails because it requires additional undisclosed software. Claim 127 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "at least in part identifies"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed

The '193 Patent

Claim 1. Claim 1 of the '193 paicnt fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the

. purportedly disclosed invention without undue experimentation in the development of enabling software and operation of such software on accompanying hardware. Specifically, several limitations in Claim 1 (320:62-321:18), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 1. Claim 1 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "budget control," "secure database," "copy control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 1 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 2: Claim 2 is dependent upon Claim 1 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 2 fails because it requires additional undisclosed software. Claim 127 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "a time substantially contemporaneous"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed

Claim 3: Claim 3 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 3 fails because it requires additional undisclosed software. Claim 3 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "encumbrance on said budget"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the

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Claim 4: Claim 4 is dependent upon Claim 3 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 4 fails because it requires additional undisclosed software. Claim 4 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "digital file authorized by said budget"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 11: Claim 11 of the '193 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software and operation of such software on accompanying hardware. Specifically, several limitations in Claim 11 (322:22-45), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 11. Claim 11 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "security," "secure memory," "features"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 11 fails the enablement and written description requirements of 35 U.S.C. § 112 § 1.

Claim 15: Claim 15 of the '193 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software and operation of such software on accompanying hardware. Specifically, several

 limitations in Claim 15 (323:15-41), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 15. Claim 15 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "security," "secure database"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 15 fails the enablement and written description requirements of 35 U.S,C. § 112

Claim 16: Claim 16 is dependent upon Claim 15 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 16 fails because it requires additional undisclosed software. Claim 16 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "authentication step"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed

Claim 19: Claim 19 of the '193 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without unduc experimentation in the development of enabling software and operation of such software on accompanying hardware. Specifically, several limitations in Claim 19 (324:9-37), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 19. Claim 19 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g.

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"clearinghouse"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 19 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 51: Claim 51 of the '193 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software and operation of such software on accompanying hardware. Specifically, several limitations in Claim 51 (326:51-327:12), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 51. Claim 51 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "security," "clearinghouse," "location remote from"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 51 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

The '861 Patent

Claim 34: Claim 34 of the '861 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 34 (24:65-25:15), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make

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 and use the full scope of Claim 34. Claim 34 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "descriptive data structure," "element information," "metadata rules"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 34 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 35: Claim 35 is dependent on Claim 34 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 35 fails because it requires additional undisclosed software. Claim 35 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "rights management data structure"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 36: Claim 36 is dependent on Claim 35 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 36 fails because it requires additional undisclosed software. Claim 36 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "content," "rules at least in part governing..."). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 37: Claim 37 is dependent on Claim 36 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 37 fails because it requires additional undisclosed software. Claim 37 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "descriptive data structure is stored within said first secure container"). The specification does

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not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 44: Claim 44 is dependent on Claim 34 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 44 fails because it requires additional undisclosed software. Claim 44 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "representation of the format of data..."). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 45: Claim 45 is dependent on Claim 44 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 45 fails because it requires additional undisclosed software. Claim 45 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "information regarding elements..."). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 46: Claim 46 is dependent on Claim 44 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 46 fails because it requires additional undisclosed software. Claim 46 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g., "target data block"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 47: Claim 47 is dependent on Claim 46 and thus fails the enablement and

written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 47 fails because it requires additional undisclosed software. Claim 47 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "target data block," "target environment"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 48: Claim 48 is dependent on Claim 46 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 48 fails because it requires additional undisclosed software. Claim 48 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "source," "source message field"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 58: Claim 34 of the '861 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 34 (24:65-25:15), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 34. Claim 34 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "metadata information," "generating or identifying at least one rule..."). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invertion across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims,

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Claim 34 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 64: Claim 64 is dependent on Claim 58 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 64 fails because it requires additional undisclosed software. Claim 64 also fails the enablement requirement in light of the breadth of the subject mauer-claimed (e.g. "creation of said first secure container"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 67: Claim 67 is dependent on Claim 64 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 67 fails because it requires additional undisclosed software. Claim 67 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 68: Claim 68 is dependent on Claim 67 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 68 fails because it requires additional undisclosed software. Claim 68 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 71: Claim 71 is dependent on Claim 58 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 71 fails because it requires additional undisclosed software. Claim 71 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of

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 the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 72: Claim 72 depends to Claim 58 and fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 72 fails because it requires additional undisclosed software.

The '891 Patent

Claim 1: Claim 1 of the '891 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 1 (318:59-319:8), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 1. Claim 1 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "securely receiving," "secure operating environment," "control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 1 fails the enablement and written description requirements of 35 U.S.C. § 112 § 1.

Claim 22: Claim 22 of the '891 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 22 (320:15-31) both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 22. Claim 22 also fails the enablement requirement in light of the breadth

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of the subject matter claimed (e.g. "securely combining," "control arrangement," "securely requiring"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 22 fails the enablement and written description requirements of 35 U.S.C. § 112 9 1.

Claim 23: Claim 23 is dependent on Claim 34 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 23 sails because it requires additional undisclosed software.

Claim 26: Claim 26 of the '891 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 26 (320:40-55) both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 26. Claim 26 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "composite data item," securely providing,"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake unduc experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 26 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 27: Claim 27 is dependent on Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 § 1 for the reasons stated above. In addition, the limitation of Claim 27 fails because it requires additional undisclosed software. Claim 27 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "combining step"). The specification does not teach a person of ordinary skill in the art how to

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practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 28: Claim 28 is dependent on Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 28 fails because it requires additional undisclosed software. Claim 28 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "composite"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 29: Claim 29 is dependent on Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 29 fails because it requires additional undisclosed software. Claim 29 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "ensuring the integrity of said association..."). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 31: Claim 31 is dependent on Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 31 fails because it requires additional undisclosed software. Claim 31 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "codelivering"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 35: Claim 35 of the '891 patent fails the enablement requirement because

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the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 35 (321:29-41), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 35. Claim 35 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure operating environment"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 35 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 36: Claim 36 of the '891 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purposedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 36 (321:44-57), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 36. Claim 36 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure operating environment system," "operatively connected," "logically associated with"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims. Claim 36 fails the enablement and written description requirements of 35 U.S.C. § 112¶1.

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27 28 Chaim 39: Claim 39 is dependent on Claim 22 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 39 fails because it requires additional undisclosed software. Claim 39 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "persistently associating," "control arrangement"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 40: Claim 40 is dependent upon Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 40 fails because it requires additional undisclosed software. Claim 40 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "control arrangement"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 51: Claim 51 is dependent upon Claim 1 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 51 fails because it requires additional undisclosed software. Claim 51 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "end user electronic appliance," "secure processing step"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 53: Claim 53 is dependent upon Claim 22 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 53 fails because it requires additional undisclosed software. Claim 53 also fails the enablement requirement in light of the breadth of the subject matter

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 claimed (e.g. "end user electronic appliance"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 54: Claim 54 is dependent upon Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 54 fails because it requires additional undisclosed software. Claim 54 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "end user electronic appliance"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 56: Claim 56 is dependent upon Claim 35 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 56 fails because it requires additional undisclosed software. Claim 56 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "end user electronic appliance"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 57: Claim 57 is dependent upon Claim 36 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 57 fails because it requires additional undisclosed software. Claim 57 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "end user electronic appliance," "protected processing environment"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

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Claim 58: Claim 58 is dependent upon Claim I and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 58 fails because it requires additional undisclosed software. Claim 58 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "entity's control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope

Claim 60: Claim 60 is dependent upon Claim 22 and thus fails the enablement claimed. and written description requirements of 35 U.S.C. § 112 § 1 for the reasons stated above. In addition, the limitation of Claim 60 fails because it requires additional undisclosed software. Claim 60 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "supplying," "control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 61: Claim 61 is dependent upon Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 61 fails because it requires additional undisclosed software. Claim 61 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "providing"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undenake undue experimentation in order to make and use the invention across the scope claimed.

Claim 63: Claim 63 is dependent upon Claim 35 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 63 fails occause it requires additional undisclosed software. Claim 63 also fails the enablement requirement in light of the breadth of the subject matter

claimed (e.g. "securely receiving"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 64: Claim 64 is dependent upon Claim 36 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 64 fails because it requires additional undisclosed software. Claim 64 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "controls"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 65: Claim 65 is dependent upon Claim 1 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 65 fails because it requires additional undisclosed software. Claim 65 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure processing environment"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 67: Claim 67 is dependent upon Claim 22 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 67 fails because it requires additional undisclosed software. Claim 67 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure processing environment"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

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27 28 Claim 68: Claim 68 is dependent upon Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 68 fails because it requires additional undisclosed software. Claim 68 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure processing environment"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 70: Claim 70 is dependent upon Claim 35 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 70 fails because it requires additional undisclosed software. Claim 70 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure processing environment," "securely processing," "securely executing"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 71: Claim 71 is dependent upon Claim 1 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 71 fails because it requires additional undisclosed software. Claim 71 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "securely combining," "control arrangement"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 74: Claim 74 is dependent upon Claim 35 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 74 fails because it requires additional undisclosed software. Claim 74 also fails the enablement requirement in light of the breadth of the subject matter

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claimed (e.g. "securely combining," "combined executable"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 75: Claim 75 is dependent upon Claim 36 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 75 fails because it requires additional undisclosed software. Claim 75 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "combined control arrangement"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 76: Claim 76 is dependent upon Claim 1 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 76 fails because it requires additional undisclosed software. Claim 76 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "securely receiving steps," "independently performed at different times"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 79: Claim 79 is dependent upon Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 79 fails because it requires additional undisclosed software.

Claim 81: Claim 81 is dependent upon Claim 35 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 § 1 for the reasons stated above. In addition, the limitation of Claim 81 fails because it requires additional undisclosed software.

Claim 81 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "securely receiving steps"). The specification does not teach a person of ordinary

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skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 82: Claim 82 is dependent upon Claim 36 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 82 fails because it requires additional undisclosed software. Claim 82 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "controls"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 84: Claim 84 is dependent upon Claim 1 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 § 1 for the reasons stated above. In addition, the limitation of Claim 84 fails because it requires additional undisclosed software. Claim 84 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "first/second entity's control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 86: Claim 86 is dependent upon Claim 26 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 86 fails because it requires additional undisclosed software. Claim 86 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 88: Claim 88 is dependent upon Claim 36 and thus fails the enablement

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and written description requirements of 35 U.S.C. § 112 § 1 for the reasons stated above. In addition, the limitation of Claim 88 fails because it requires additional undisclosed software. Claim 88 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 89: Claim 89 is dependent upon Claim 1 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 89 fails because it requires additional undisclosed software. Claim 89 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "control," "protected processing environment"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 91: Claim 91 is dependent upon Claim 22 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 91 fails because it requires additional undisclosed software. Claim 91 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 94: Claim 94 is dependent upon Claim 35 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 94 fails because it requires additional undisclosed software. Claim 94 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake

 undue experimentation in order to make and use the invention across the full scope claimed.

Claim 95: Claim 95 is dependent upon Claim 36 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 95 fails because it requires additional undisclosed software. Claim 95 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

The '912 Patent

Claim 6: Claim 6 of the '912 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 6 (326:65-327:23), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 6. Claim 6 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "relatively lower leve) of security," "private portion characterized by...," "accessing," "record"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 6 fails the enablement and written description requirements of 35 U.S.C. § 112¶1.

Claim 7: Claim 7 is dependent upon Claim 8 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 7 fails because it requires additional undisclosed software. Claim 7 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g.

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"relatively higher/lower level of security"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 8: Claim 8 of the '912 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 8 (___ _), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 8. Claim 8 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "higher/lower level of security," "execution space identifier," "assembling"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 8 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 9: Claim 9 is dependent upon Claim 8 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 9 fails because it requires additional undisclosed software.

Claim 13: Claim 13 is dependent upon Claim 8 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 13 fails because it requires additional undisclosed software. Claim 13 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "a security level higher that that of the execution space,"). The specification does not teach a person of ordinary skill in the an how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the

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invention across the full scope claimed.

Claim 14: Claim 14 is dependent upon Claim 13 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 14 fails because it requires additional undisclosed software.

Claim 35: Claim 35 of the '912 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 35 (330:27-57), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 35. Claim 35 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "second processing environment remote from first processing environment," "identification information"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 35 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

The '900 Patent

Claim 155: Claim 155 of the '900 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 155 (370:30-55), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, pernaps followed by bottom up software development, in order to make and use the full scope of Claim 155. Claim 155 also fails the enablement requirement in light of

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the breadth of the subject matter claimed (e.g. "host processing environment," "tamper resistant software designed to be loaded into said main memory . . .," "machine check programming which derives information . . .," "integrity programming"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 155 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 156: Claim 156 of the '900 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 156 (370:57-371:15), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 156. Claim 156 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "virtual distribution environment," "host processing environment," "tamper resistant software designed to be loaded into said main memory . . .," "machine check programming which derives information . . .," "integrity . programming"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 156 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 157: Claim 157 of the '900 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 157 (371:16-42), both explicitly and

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implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, pethaps followed by bottom up software development, in order to make and use the full scope of Claim 157. Claim 157 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "virtual distribution environment," "host processing environment," "tamper resistant software designed to be loaded into said main memory . . .," "machine check programming which derives information . . .," "integrity programming"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 157 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

The '721 Patent

Claim 1: Claim 1 of the "721 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 1 (21:10-24), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 1. Claim 1 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "load module," "tamper resistance," "security level"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 1 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 5: Claim 5 of the '721 patent fails the enablement requirement because the

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specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 5 (21:39-47), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 5. Claim 5 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "software verifying method," "specification"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 5 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 9: Claim 9 of the '721 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 9 (22:5-15), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 9. Claim 9 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "distinguishing between trusted and untrusted load modules." ,," "associated digital signature," "conditionally executing"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 9 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1. -

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Claim 14: Claim 14 of the '721 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 14 (22:44-51), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 14. Claim 14 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "arrangement within the first tamper resistant barrier that prevents...,"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims. Claim 14 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 18: Claim 18 of the '721 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 18 (22:64-25:3), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 18. Claim 18 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "preventing the first computing arrangement . . "). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims. Claim 18 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

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Claim 34: Claim 34 of the '721 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 34 (24:47-56), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 34. Claim 34 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure execution space," "security level"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the an would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 34 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 38: Claim 38 of the '721 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 38 (25:1-8), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 38. Claim 38 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "computing arrangement surrounded by a first tamper resistant barrier ... ""security level"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scone claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 38 fails the enablement and written description requirements of 35 U.S.C.

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§ 112 ¶ 1.

The '019 Patent

Claim 1: Claim 1 of the '019 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 1 (319:46-320:7), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim I. Claim 1 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "associated control," "protected," transferring," "protected content file") The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim I fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 33: Claim 33 of the '019 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 33 (323:60-324:14), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 33. Claim 33 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means for incorporating," "means for transferring," "protected data") The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope

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claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 33 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 34: Claim 34 is dependent upon Claim 33 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 34 fails because it requires additional undisclosed software. Claim 34 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means for applying"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 35: Claim 35 is dependent upon Claim 34 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 35 fails because it requires additional undisclosed software. Claim 35 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means for applying"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 41: Claim 41 of the '019 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 41 (325:7-29), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 41. Claim 41 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "virtual distribution environment") The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person

. of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 41 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 42: Claim 42 is dependent upon Claim 41 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 42 fails because it requires additional undisclosed software. Claim 42 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "control," "protected information," "secure container"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 47: Claim 47 is dependent upon Claim 41 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 47 fails because it requires additional undisclosed software. Claim 47 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 52: Claim 52 is dependent upon Claim 41 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 52 fails because it requires additional undisclosed software. Claim 52 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "creating" "secure container," "site"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

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Claim 53: Claim 53 is dependent upon Claim 52 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 § 1 for the reasons stated above. In addition, the limitation of Claim 53 fails because it requires additional undisclosed software. Claim 53 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "associated"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake unduc experimentation in order to make and use the invention across the full scope claimed.

Claim 54: Claim 54 is dependent upon Claim 53 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 54 fails because it requires additional undisclosed software. Claim 54 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "associated"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 55: Claim 55 is dependent upon Claim 54 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 55 fails because it requires additional undisclosed software. Claim 55 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "site"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 64: Claim 64 is dependent upon Claim 54 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 64 fails necesse it requires additional undisclosed software. Claim 64 also fails the enablement requirement in light of the breadth of the subject matter

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claimed (e.g. "portion of said first protected information"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake unduc experimentation in order to make and use the invention across the full scope claimed.

Claim 76: Claim 76 is dependent upon Claim 41 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 76 fails because it requires additional undisclosed software. Claim 76 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure container," "contained"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake unduc experimentation in order to make and use the invention across the full scope claimed.

Claim 78: Claim 78 is dependent upon Claim 52 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 78 fails because it requires additional undisclosed software. Claim 78 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure container," "contained"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 81: Claim 81 of the '019 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 81 (328:9-23), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 81. Claim 81 also fails the enablement requirement in light of the breadth

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 of the subject matter claimed (e.g. "means for incorporating") The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake unduc experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 81 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 82: Claim 82 is dependent upon Claim 81 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 82 fails because it requires additional undisclosed software. Claim 82 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means for applying," "govern"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 83: Claim 83 is dependent upon Claim 82 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 83 fails because it requires additional undisclosed software. Claim 83 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "govern," "means for applying"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 85: Claim 85 of the '019 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 85 (328:28-56), both explicitly and implicitly require software: Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of

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27. the full scope of Claim 85. Claim 85 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "creating," "copying," transferring") The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 85 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 87: Claim 87 is dependent upon Claim 85 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 87 fails because it requires additional undisclosed software. Claim 87 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "copied," "protected information"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 89: Claim 89 is dependent upon Claim 85 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 89 fails because it requires additional undisclosed software. Claim 89 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "copying," "transferring"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 90: Claim 90 is dependent upon Claim 85 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ I for the reasons stated above. In addition, the limitation of Claim 90 fails because it requires additional undisclosed software. Claim 90 also fails the enablement requirement in light of the breadth of the subject matter

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claimed (e.g. "memory"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 93: Claim 93 is dependent upon Claim 85 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 93 fails because it requires additional undisclosed software. Claim 93 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "copying transferring"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 94: Claim 94 is dependent upon Claim 85 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 89 fails because it requires additional undisclosed software.

Claim 95: Claim 95 is dependent upon Claim 94 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 95 fails because it requires additional undisclosed software. Claim 95 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "copied," "protected information"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 96: Claim 96 of the '019 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several immutations in Claim 96 (329:38-330:12), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no

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meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 96. Claim 96 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "virtual distribution environment," "protected information") The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 96 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

The '876 Patent

Claim 2: Claim 2 of the '876 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 2 (319:20-32), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 2. Claim 2 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means for . . . securely integrating," "value chain extended agreement"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 2 fails the enablement and written description requirements of 35 U.S.C. § 112 § 1.

Claim 11: Claim 11 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 11 fails because it requires additional undisclosed software. Claim 11 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g.

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"Virtual Distribution Environment"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 29: Claim 29 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 29 fails because it requires additional undisclosed software. Claim 29 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure control," "required terms"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 32: Claim 32 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 32 fails because it requires additional undisclosed software. Claim 32 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure control," "required terms"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 60: Claim 60 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 60 fails because it requires additional undisclosed software. Claim 60 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "secure control," "required terms"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 130: Claim 130 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 29 fails because it requires additional undisclosed software. Claim 29 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means for executing... control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 132; Claim 132 is dependent upon Claim 130 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 132 fails because it requires additional undisclosed software. Claim 132 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "protected processing environment"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 161: Claim 161 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 161 fails because it requires additional undisclosed software. Claim 161 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "machine executable controls"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 162: Claim 162 is dependent upon Claim 161 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 162 fails because it requires additional undisclosed software Claim 162 also fails the enablement requirement in light of the breadth of the subject matter

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claimed (e.g. "data descriptor data structures"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 170: Claim 170 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 170 fails because it requires additional undisclosed software. Claim 170 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means for creating a first secure control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake unduc experimentation in order to make and use the invention across the full scope claimed.

Claim 171: Claim 171 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 171 fails because it requires additional undisclosed software. Claim 171 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means for creating... secure control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 172: Claim 172 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 172 fails because it requires additional undisclosed software. Claim 172 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means ... for securely integrating"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore he required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

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 Claim 329: Claim 329 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 329 fails because it requires additional undisclosed software. Claim 329 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means for creating ... secure control"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 331: Claim 331 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 331 fails because it requires additional undisclosed software. Claim 331 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means ... for securely integrating," "based on or compatible with . .."). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 346: Claim 346 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 346 fails because it requires additional undisclosed software. Claim 346 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "means by which said third control set governs..."). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 347: Claim 347 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 347 fails because it requires additional undisclosed software. Claim 347 also fails the enablement requirement in light of the breadth of the subject matter

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claimed (e.g. "means by which said third control set governs the execution of at least one method"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 349: Claim 349 is dependent upon Claim 2 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 349 fails because it requires additional undisclosed software. Claim 349 also fails the enablement requirement in light of the breadth of the subject matter ciaimed (e.g. "means by which said third control set governs the execution of at least one procedure"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

The '181 Patent

Claim 48: Claim 48 of the '181 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 48 (48:17-38), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful. programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 48. Claim 48 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "narrowcasting selected digital information," secure node," "information derived in part from specified recipient's creation"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons

stated above with respect to all of the claims, Claim 48 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 59: Claim 59 is dependent upon Claim 48 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 59 fails because it requires additional undisclosed software. Claim 59 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 61: Claim 61 is dependent upon Claim 48 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 61 fails because it requires additional undisclosed software. Claim 61 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "entertainment information"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 63: Claim 63 is dependent upon Claim 48 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 63 fails because it requires additional undisclosed software. Claim 63 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "music information"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 67: Claim 67 is dependent upon Claim 48 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 § 1 for the reasons stated above. In addition, the limitation of Claim 67 fails because it requires additional undisclosed software.

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Claim 67 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "digital certificate information"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 70: Claim 70 is dependent upon Claim 48 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 70 fails because it requires additional undisclosed software. Claim 70 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 72: Claim 72 is dependent upon Claim 48 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 72 fails because it requires additional undisclosed software. Claim 72 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 75: Claim 75 is dependent upon Claim 72 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 75 fails because it requires additional undisclosed software. Claim 75 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "acceptable clearinghouse," "rights and permissions clearinghouse"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the inventor across the full scope claimed.

Claim 89: Claim 89 is dependent upon Claim 48 and thus fails the enablement

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and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above.

Claim 91: Claim 91 of the '181 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 91 (86:47-87:4), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use the full scope of Claim 91. Claim 91 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "narrowcasting selected digital information," secure node;" "information derived in part from specified recipient entity's creation"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 91 fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1.

Claim 104: Claim 104 is dependent upon Claim 91 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 § 1 for the reasons stated above. In addition, the limitation of Claim 104 fails because it requires additional undisclosed software. Claim 104 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 109: Claim 109 is dependent upon Claim 91 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 § 1 for the reasons stated above. In addition, the limitation of Claim 109 fails because it requires additional undisclosed software.

Claim 109 also fails the enablement requirement in light of the breadth of the subject matter claimed. The specification does not teach a person of ordinary skill in the art how to practice the

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full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 114: Claim 114 is dependent upon Claim 91 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 114 fails because it requires additional undisclosed software. Claim 114 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "clearinghouse acceptable to rightsholders"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 117: Claim 117 is dependent upon Claim 114 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above. In addition, the limitation of Claim 117 fails because it requires additional undisclosed software. Claim 117 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "rights and permissions clearinghouse"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed.

Claim 131: Claim 131 is dependent upon Claim 91 and thus fails the enablement and written description requirements of 35 U.S.C. § 112 ¶ 1 for the reasons stated above.

The '402 Patent

Claim 1: Claim 1 of the '402 patent fails the enablement requirement because the specification does not teach a person of ordinary skill in the relevant arts how to practice the purportedly disclosed invention without undue experimentation in the development of enabling software. Specifically, several limitations in Claim 1 (322:5-25), both explicitly and implicitly require software. Since no software is disclosed in the specification, and no meaningful programming guidance is provided, a person of skill in the art would have to engage a process of trial and error, perhaps followed by bottom up software development, in order to make and use

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the full scope of Claim 1. Claim 1 also fails the enablement requirement in light of the breadth of the subject matter claimed (e.g. "creating," "having associated a first control" "value chain extended agreement," "transferring"). The specification does not teach a person of ordinary skill in the art how to practice the full scope of the claim, and a person of skill in the art would therefore be required to undertake undue experimentation in order to make and use the invention across the full scope claimed. For these reasons and for the reasons stated above with respect to all of the claims, Claim 1 fails the enablement and written description requirements of 35:U.S.C. § 112 ¶ 1.

IV. Patent L.R. 3-4

Each reference identified pursuant to PLR 3-3(a) but not in the prosecution history, and the documents referenced in PLR 3-4 that are sufficient to show the operation of the accused features of the products specifically and properly identified in InterTrust's PLR 3-1 Statements of September 2, 2003, has been or is being produced, or is otherwise available for inspection and copying. As set forth in greater detail in Microsoft's Motion to Strike InterTrust's Infringement Contentions (filed October 8, 2003), InterTrust's Infringement Contentions pursuant to PLR 3-1 largely fail to properly identify the "accused instrumentalities." Accordingly, Microsoft reserves its right to modify this production, if necessary. Microsoft has specifically sought, and has been granted, greater protection and confidentiality for its source code than that provided by Patent Local Rule 2-2. Source code for the Accused Instrumentalities is being made available for inspection at the offices of Orrick, Herrington & Sutcliffe LLP only in accordance with

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MICROSOFT'S PRELIMINARY INVALIDIT

Magistrate James' Order of November 5, 2003. Microsoft does not concede that any source code made available for inspection (or any corresponding product or software) is or should beconsidered an Accused Instrumentality. Dated: November 17, 2003 WILLIAM L. ANTHONY ERIC L. WESENBERG ORRICK, HERRINGTON & SUTCLIFFE LLP .**7** Attorneys for Defendant and Counterclaimant MICROSOFT CORPORATION

Exhibit A

| According | | |
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| | Yes | 3,796,830; Smith |
| | Yes | 3,798,359; Peistal |
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| | Yes | 4,309,569; Merkle |
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| | Yes | 4.446.519: Thomas |
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| | Yes | 4.454.594; Heffron et al. |
| | Yes | 4.458.315; Uchenick |
| | Yes . | 4,462,076; Smith, III |
| | Yes | 4,462,078; Ross |
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| | Yes | 4,553,252; Egendorf |
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| 1 | Yes. | 4.589.064; Chiba et al. |
| | Yes. | 4,593,183; Pukatsu |
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| | ¥cs | 4,593,376; Volk |
| | Yes | 4,595.950; Lofberg |
| | Yes ··· | 4,597,058; Izumi et al. |
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| | Yeş | 4,634,807; Chorley et al. |
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| · f | Yes | 4,672,572; Alsberg |
| | Yes- | 4,677,434; Fascenda |
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| | Yes | 4,685,056; Barnsdale et al. |
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| | Yes | 4,747,139; Tsaffe |
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| | Ycs | 4,827,508; Shear |
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| | · Yes | 4,975,647; Downer et al. |
| | Yes . | 4,977,594; Shear |
| ··· | Yes . | 4,999,806; Chernow et al. |
| | Yes | 5,001,752; Fischer |
| <u></u> | Yes | 5,005,122; Griffin et al. |
| - · · · · - | Yes_ | 5,005,200; Fischer |
| | Yes | 5,010,571; Karzoelson |
| | Yes | 5,023,907; Johnson et al. |
| | Yes | 5.047.928; Wiedemer |
| | Yes | 5,048,085; Aliraham et al. |
| | Yes | 5,050,213; Shear |
| | Yes | 5,091,966; Bloomberg et al. |
| - | Yes | 5,103,392; Mori |
| | Yes Yes | 5,103,476; Waite et al. 5,111,390; Ketcham |
| | Yes | 5.119.493; Jam's et al. |
| | Yes. | 5,126,936; Champion et al. |
| | Yes | 5.128.525: Steams et al. |
| | Yes . | 5.136.643; Fischer |
| | Yes | 5,136,646; Haber et al. |
| | Yes | |
| | | 5.136,647; Haber et al. |
| | Yes | 5.136.716; Harvey et al. |
| | Yes | 5,146,575; Nolan, Jr. |
| 1 | Yes | 5,148,481; Abraham et al. |
| ·-· - | Yes | 5,155,680; Wiederner |
| <u>Y</u> | Yes | 5,163,091; Graziano et al. |
| | Yes | 5,168,147; Bloomberg |

[&]quot;Any possible "Y"s that were missed shall not negate the anticipatory nature of a reference, particularly where there is a chart in Appendix B. 24

| Yes 5,185,717; Mori Yes 5,187,787; Skeen et al. | |
|---|---|
| | |
| I YES IS 187 787 Steen et al | |
| Y 5,201,046; Goldberg et al. | |
| Yes 5,201,047; Maki et al. | ' \ |
| Yes 5,208,748; Flores et al. | |
| Yes 5,214,702; Fischer | |
| Yes 5.216,603; Flores et al. | |
| Yes 5,221,833; Hecht | |
| Ycs 5,222,134; Waite et al. | |
| Yes 5,224,160; Paulini et al. | |
| Yes 5,224,163; Gasser et al. | |
| Yes 5,227,797; Marphy | ···- |
| Ycs 5,235,642; Wobber et al. | - ; , , , , , , , , , , , , , , , , , , |
| Ycs 5.241,671; Reed et al. | • |
| Yes 5,245,165; Zhang | |
| Yes 5,247,575; Spragne et al. | |
| Yes 5,257,369; Skeen et al. | |
| Yes 5,260,999; Wyman | |
| Yes 5,269,158; Janis | |
| Yes 5,265,164; Matyas et al. | |
| Y Yes 5,276,735; Boebert et al. | |
| Yes 5,280,479; Mary | |
| Yes 5,285,494; Sprecher et al. | |
| Yes 5,301,231; Ahraham et al. | · |
| Yes 5,311,591; Fischer | |
| Yes 5,319,705; Halter et al. | |
| Yes 5,319,785; Halter et al. | |
| Yes 5,335,169; Chong Yes 5,337,360; Fischer | |
| Yes 5,341,429; Stringer et al. | |
| Yes 5343,527; Moore | |
| Yes 5.347,579; Blandford | |
| Yes 5.351.293; Michener et al. | |
| Y Yes 5.355.474; Thursisngham et al. | |
| Yes 5,365,587; Campbell et al. | |
| Yes 5,373,440; Cohen et al. | |
| Yes 5,373,561; Haber et al. | |
| Yes 5,390,247; Fischer | · 1 |
| Yes 5,390,330; Talati | |
| Yes 5,392.220; van den Hamer et al. | |
| Yes 5.392,390; Crozier | |
| Yes 5.394,469; Nagel et al. | · . |
| Y= 5,410.598; Shear | |
| Yes 5,412,717; Fischer | |
| Yes 5,418,713; Allen | · · · · · · · · · · · · · · · · · · · |
| Yes 5.420,927; Micali | • |
| Yes 5,421,006; Jablon | |
| Yes 5,422,953; Fischer | |

^{*} Any possible "Y"s that were missed shall not negate the anticipatory nature of a reference, particularly where there is a chart in Appendix B.

| | Remins Obstant | Decapion |
|--|-------------------|---|
| | Yes | 5,428,606; Moskowitz |
| | Yes | S,438,508; Wymau |
| | Yes | 5,442,645; Ugan |
|] | Yes | 5,444,779; Daniele . |
| | Yes | 5,449,895; Hecht et al. |
| <u></u> | Yes | 5,449,896; Hecht et al. |
| | Yes | 5.450,493; Maher |
| | Yes | 5,453.601; Rosen |
| | Yes | SAS3,605; Hecht et al. |
| <u></u> | Yes | 5,455,407; Rosen |
| | Yes | 5,455,861; Faucher et al. |
| | Yes | 5,455,953; Russell |
| | Yes | 5,457,746; Dolphin |
| 1 | Υœ | 5,457,747; Drexler et al. |
| | Хœ | 5,458,494; Krohn et al. |
| J | Yes | 5,463,565; Cookson et al. |
| ļ | Yes | 5,473,687; Lipscomb et al. |
| <u> </u> | Yes | 5,473,692; Davis |
| | Yes | 5,479,509; Ugon |
| | Yes | 5,485,622; Yamaki |
| ļ | Yes | 5.491,800; Goldsmith et al. |
| | Yes | 5.497,479; Hornbuckle |
| | Yes | 5,497,491; Mitchell et al. |
| <u> </u> | Yes | 5,499,298; Narasimhalu et al, |
| · | Yes | 5,504,757; Cook et al. |
| | Yes . | 5,504,818; Okano |
| | Yes | 5,504,837; Griffeth et al. |
| | Yes Yes | 5,508,913; Yamamoto et al. 5,509,070; Schuli |
| - | | 5,513,261; Maher |
| | Yes | 5,517,518; Rosen |
| | Yes | 5,530,235; Steffik et al. |
| | Xes . | 5,530,752; Rubin |
| | Yes | 5,533,123; Force et al. |
| | | 5,534,855; Shockley et al. |
| | Yes | 5.534.975; Stefik et al. |
| | | 5,535,322; Hecht |
| | | 5,537,526; Anderson et al. |
| | | 5_539,735, Moskowitz |
| | | 5,539,828; Davis |
| | | 5.550.971; Brumer et al. |
| | | 5.553.282; Parrish et al. |
| | | 5,557,518; Rosen |
| | | 5,557,798; Skeen et al. |
| | | 5,563,946; Cooper et al. |
| | | |
| | | 5,568,552; Davis |
| | | 5.572,673; Shurts |
| | Yes . | 5,592,549; Naget et al. |

^{*} Any possible "Y's that were missed shall not negate the anticipatory nature of a reference, particularly where there is a chart in Appendix 6.

| | Rontes | |
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| Victor put | (017/00Te | |
| | Yes · | 5,606,609; Houser et al. |
| <u>. </u> | Yes | 5,613,004; Cooperman et al. |
| | . Yes_ | 5,621,797; Rosen |
| | Yes | 5,629,770; Brassil et al. |
| | Yes | |
| · | Yes | 5,633,932; Davis et al. |
| | Yes | 5,634,012; Stefik et al. |
| | Yes - | 5,636.292; Rhoads |
| • | Yes · | 5,638,443; Stefik et al. |
| | Yes | 5,638,504; Scott et al. |
| | Yes | 5.640,546; Gopinath et al. |
| | Yes | 5,655,077; Jones et al. |
| | Yes | 5,678,170; Grube et al. |
| | Yes | 5,687,236; Moskowitz et al. |
| | Yes | 5,689,587; Bender et al |
| Y | Yes | \$,692,047; McManis |
| | Yes | 5,692,180; Lee |
| | Yes | 5.710,834; Rhoads |
| ··· | Yes | 5.715,403; Srefik |
| | Yes | 5,721,788; Powell et al. |
| | Yes | 5,732,398; Tagawa |
| | Yes . | 5,740,549; Reilly et al. |
| | Yes | 5,745,604; Rhoads |
| | Yes | 5,748,763; Rhoads |
| | Yes | 5,748,783; Rhoads |
| | Yes | 5,748,960; Fischer |
| | Yes | 5,754,849; Dyer et al. |
| | Yes Yes | 5,757,914; McMenis |
| - Y | Yes | 5,758,152; LeTourneau 5,765,152; Erickson |
| | Yes | 5,768,426; Rhoads |
| | Yes | 5,774,872; Golden et al. |
| | Yes | 5.819,263; Bromley et al. |
| f | Yes | 5.842.173; Strum et al. |
| - | Yes | BB 9 004 79 |
| | Yes | DE 3 803 982 |
| · | Yes | DE 3 803 982 A1 |
| | Yes | EP 0 084 44) |
| | Yes | EP 0 084 441 A1 |
| | Yes | EP 0 128 672 |
| | Yes | EP 0 128 672 A1 |
| | Yes | EP 0 135 422 |
| | Yes | EP 0 135 422 A1 |
| | | |
| | Yes Yes | EP 0 180 460 |
| | Уes | EP 0 180 460 A1 |
| | Yes | EP 0 370 146 |
| | | EP 0 370 146 A1 |
| | Yes | EP 0 399 822 A2 |

^{*} Any possible "Y"s that were missed shall not negate the anticipatory nature of a reference, particularly where there is a chart in Appendix B. 27

| Anionnes | Reiting | Lesuinger |
|----------------------|---------|-----------------|
| | Yes | EP 0 421 409 |
| | Yes | EP 0 421 409 A2 |
| } | Yes | EP 0 456 386 |
| } | Yes | EP 0 456 386 A2 |
| | Yes | EP 0 469 864 |
| | Yes | EP 0 469 864 A2 |
| · | Yes | EP 0 469 864 A3 |
| | Yes | EP 0 565 314 |
| | Yes | EP 0 565 314 A2 |
| · | Yes | EP 0 593 305 |
| | Yes | EP 0 593 305 A2 |
| · · · · · · | Yes | EP 0 651 554 |
| | Yes | EP 0 651 554 A1 |
| | Yes | EP 0 668 695 |
| ╏┈╴┍┍┈ ╾┪ | Yes | EF 0 668 695 A2 |
| | | EP 0 668 695 A3 |
| | | EP 0 695 985 |
| | | BP 0 695 985 A1 |
| | | EP 0 696 798 |
| | | EP 0 696 798 A1 |
| | | EP 0 714 204 |
| | | EP 0 714 204 A2 |
| | | EP 0 715 243 |
| | | EP 0 715 243 A1 |
| • | | EP 0715 244 |
| · · | | EP 0715 244 A1 |
| | | EP 0 715 245 |
| | | EP 0 715 245 A1 |
| | | EP 0 715 246 |
| | | EP-0.715 246 AJ |
| | | EP 0 715 247 |
| | Yes | EP 0 715 247 A1 |
| | Yes | EP 0 725 376 |
| | | RP 0 725 376 A2 |
| | | EP 0 749 081 |
| 1. | Yes | EP 0 749 081 AI |
| | Yes | EP 0 763 936 |
| | | EP 0 763 936 A2 |
| · · | Yes | EP 0 778 513 |
| | | EP 0 778 513 A2 |
| | | EP 0 795 873 |
| | | EP 0 795 873 A2 |
| | | EP 0 800 312 |
| | | EP 0 800 312 A1 |
| | | GB 2,136,175 |
| | | GB 2.264,796 |
| | | GB 2,294,348 |
| | | JB 2.295,947 |
| | | |

^{*} Any possible "Y"s that were missed shall not negate the anticipatory nature of a reference, particularly where there is a chart in Appendix B. 28

| | 100 | |
|--|----------|--------------|
| Autoje je | 18501675 | Escaping |
| | Yes : | JP 01-068895 |
| | Yes | JP 02-242352 |
| · · | Ycs | IP 02-247763 |
| | Yes | IP 02-294855 |
| | Yes | JP 04-369068 |
| | Yes | JP 05-181734 |
| · · · · · · | Yes | JP 05-257783 |
| | Yes | JP 05-268415 |
| , , | Yes | JP 06-175794 |
| | Yes | JP 06-215010 |
| | Yes | JP 06-225059 |
| | Yes | IP 07-056794 |
| | Yes | IP 07-084852 |
| | Yes | JP 07-141138 |
| | Yes_ | IP 07-200317 |
| • | Yes | JP 07-200492 |
| | Yes | JP 07-244639 |
| | Yes | JP 08-137795 |
| | Yes | JP 08-152990 |
| | Yes | JP 08-185292 |
| | Yes | 7P 08-185298 |
| | Yes | JP 57-726 |
| | Yes | JP 62-241061 |
| | Yes | WO 85/02310 |
| | Yes | WO 85/03584 |
| | Yes | WO 90/02382 |
| •. | Yes | WO 92/06438 |
| | Yes | WO 92/22870 |
| | Yes | WO 93/01550 |
| · · · · · · · · · · · · · · · · · · · | Yes | WO 94/01821 |
| | Yes | WO 94/03859 |
| | Yes | WO 94/06103 |
| | Yes | WO 94/16395 |
| | Yes | WO 94/18620 |
| <u>: </u> | . Yes | WO 94/22266 |
| | Yes | WO 94/27/406 |
| ` | Yes | WO 95/14289 |
| | Yes | WO 96/00963 |
| <u>-</u> | Yes | WO 96/03835 |
| | Yes | WO 96/05698 |
| | Yes | WO 96/06503 |
| | Yes | WO 96/13013 |
| | Yes | WO 96/21192 |
| | Yes | WO 96/24092 |
| | Yes | WO 97/03423 |
| | Yes | WQ 97/07656 |
| | Yes | WO 97/25816 |
| 1 | Ycs | WO 97/32251 |

^{*} Any possible "Y"s that were missed shall not negate the anticipatory nature of a reference, particularly where there is a chart in Appendix B.

| Aniones | Balas Colore | Destron |
|---------|-----------------|---|
| | Yes | WO 97/48203 . |
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| | Yes | Argent Information Q&A Sheet, http://www.digital-watermark.com/. Copyright 1995, The DICE Company, 7 pages. |
| | Yes | Antometion of Securities Markets and Regulatory Implications, Financial Market Trends, n50, p. 20-33, Oct. 1991. [File 148, Gale Group Trade & Industry DB, Dialog(R) commercial database] |
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| Antigo is | Rodos | Lesuration |
|-----------|-------|---|
| | Yes | CGI Common Gateway Interface Document from the Internet, |
| · | 165 | cogi@nesa.uiuc.edu>, 1996, 1 page. |
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| An facility for | 18 et ilors (0) van ils | Description |
|-----------------|----------------------------|---|
| | Yes | Electronic Chrency Requirements, XTWT (Cross Industry Working Group), (no date). |
| | Yes | Electronic Publishing Resources Inc. Protecting Electronically Published Properties (Electronic Publishing Resources 1991). |
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| ADDICTOR | Reference 1 000 Mbbs | Description |
|----------|-------------------------|--|
| | Yes | HSP Break Out Session Report for Group No. 3, Standards Development and Tracking System, no date. |
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| | APPENDIX OF PRIOR ARIV | | |
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Exhibit B

Exhibit B to "DEFENDANT MICROSOFT CORPORATION'S PRELIMINARY INVALIDITY CONTENTIONS (Patent Local Rules 3-3 and 3-4)" was provided via CD-ROM in Appln. No. 09/698,044, to which the Office is respectfully directed for this exhibit.

Exhibit C

Exhibit C to "DEFENDANT MICROSOFT CORPORATION's PRELIMINARY INVALIDITY CONTENTIONS (Patent Local Rules 3-3 and 3-4)" was provided via CD-ROM in Appln. No. 09/698,044, to which the Office is respectfully directed for this exhibit.